

Site Characterization Report and Remediation Workplan

August 9, 2024

West Eumont Unit #525 Produced Water Release Incident No. nAPP2405856306 Lea County, New Mexico

Prepared For:

Forty Acres Energy, LLC 11757 Katy Freeway, Suite 725 Houston, Texas 77079

Prepared By:

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grithia K. Crain, P.G.



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1.0 Introduction

Crain Environmental (CE), on behalf of Forty Acres Energy, LLC (FAE), has prepared this *Site Characterization Report and Remediation Workplan* for the produced water release at West Eumont Unit #525 (Site), located approximately 13 miles northwest of Eunice and approximately 15 miles southwest of Hobbs, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release are 32.533204, -103.328195. The property surface rights are privately owned. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Site is depicted on Figure 1.

2.0 Background

On February 22, 2024, a release from a flowline located approximately 144 feet (') west of the West Eumont Unit #525 was discovered. As a result of corrosion, approximately 22 barrels (bbls) of produced water were released. Immediately following the release, the area was secured, a vacuum truck was mobilized to the Site, and the line was repaired. The released fluid covered a surface area of approximately 420 square feet. Approximately 17 bbl of fluid were recovered. The release point and the surface extent of the release are depicted on Figure 2.

A Notification of Release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 27, 2024, and Incident #nAPP2405856306 was assigned. An Initial Form C-141 (Release Notification Report) was submitted February 28, 2024. On July 30, 2024, the NMOCD approved an extension for submittal of a Site Characterization Report and Remediation Workplan until August 20, 2024. Appendix A provides a copy of the C-141. Appendix B provides a copy of NMOCD correspondence.

This Site Characterization Report and Remediation Workplan has been prepared prior to the due date of August 20, 2024, in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC).

3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as "Closure Criteria") are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.



- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are no water wells located within 0.5 mile of the Site; however, FAE provided documentation that a well (L-15554 POD 1) was installed on August 25, 2023, to a depth of 105' below ground surface (bgs) and groundwater was not encountered. The well is listed in the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of well L-15554 POD 1. The well log is provided in Appendix C. Based on the available water well data, it is estimated that depth to groundwater at the Site is greater than 100 feet bgs.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Total Depth / Depth to Water (feet bgs)
L-15554 POD 1	Approx. 2,836 feet to NE	2023	N/A	105 / DRY

3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.



- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
 - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
 - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
 - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

At depths greater than 4' bgs, the Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the least stringent Closure Criteria typically associated with groundwater depths of greater than 100 feet bgs. From the surface to a depth of 4' bgs, the most stringent Closure Criteria will apply. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

		Closure Criteria Based on Depth to Groundwater (mg/kg)			
Constit	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs	
Chloride (EPA 300)		600	10,000	20,000	
TPH (EPA	GRO + DRO + MRO	100	2,500	2,500	
8015M)	GRO + DRO	NA	1,000	1,000	
Total BTE	((EPA 8021 or 8260)	50	50	50	
Benzene	(EPA 8021 or 8260)	10	10	10	

Notes: NA = not applicable

West Eumont Unit #525 Produced Water Release Site Characterization Report and Remediation Workplan



bgs = below ground surface
mg/kg = milligrams per kilogram
GRO = gasoline range organics
DRO = diesel range organics
MRO = motor oil range organics
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown; however, a water well was drilled approximately 2,836 feet northeast of the Site in 2023 to a depth of 105', and groundwater was not encountered. Depth to groundwater is estimated be greater than 100' bgs at the Site.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

4.5 Initial Delineation Activities

All visibly impacted soil has been excavated and hauled to disposal at J&L Landfarm (J&L).

On January 25, 2024, soil samples (S-1 through S-8) were collected from the bottom and sides of the excavation. Soil samples were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins Environmental Testing (Eurofins) in Midland, Texas under proper chain-of-custody control. All samples were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B, and for chlorides by EPA Method 300.



Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory report and chain-of-custody documentation are provided in Appendix D. Photographic documentation is provided in Appendix D.

Referring to Table 1, concentrations of BTEX and TPH were reported below the test method detection limits or Closure Criteria in all samples. Concentrations of chlorides exceeded the Closure Criteria at four sidewall sample locations (S-1 and S-3 to S-5), as shown on Figure 2. Soils with chloride exceedances will be addressed in accordance with the Proposed Remediation Workplan discussed in Section 5.0.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Job Number 880-46542-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix D.

5.0 Proposed Remediation Workplan

Benzene, BTEX, and TPH concentrations were reported below the test method detection limits or Closure Criteria in all samples. Concentrations of chlorides were reported above the Closure Criteria in four sidewall samples, as listed on Table 1 and shown on Figure 2.

FAE proposes to excavate all impacted soil until confirmation samples collected from the bottom and sidewalls of the excavation report chloride concentrations below the NMOCD Closure Criteria. As initial BTEX and TPH concentrations were below the test method detection or Closure limits, each confirmation sample will be analyzed only for chlorides. Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas. The excavated material will be transported under manifest to a NMOCD approved disposal facility.

Upon receipt of laboratory results that all chloride concentrations are below the Closure Criteria, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

FAE respectfully requests a remediation schedule of 90 days from the date of NMOCD approval of this Remediation Workplan to complete the proposed remediation activities and submit a *Remediation Summary and Closure Report* for NMOCD approval. The Closure Report will summarize remedial activities and confirmation sampling results and will include the final Form C-141.



6.0 Distribution

Copy 1: Mike Bratcher

New Mexico Energy, Minerals, and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, New Mexico 88210

Copy 2: Ryan Swift

Forty Acres Energy, LLC

11757 Katy Freeway, Suite 725

Houston, Texas 77079



TABLE

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FORTY ACRES ENERGY, LLC WEST EUMONT UNIT #525 (30-025-45482) NMOCD INCIDENT # nAPP2405856306

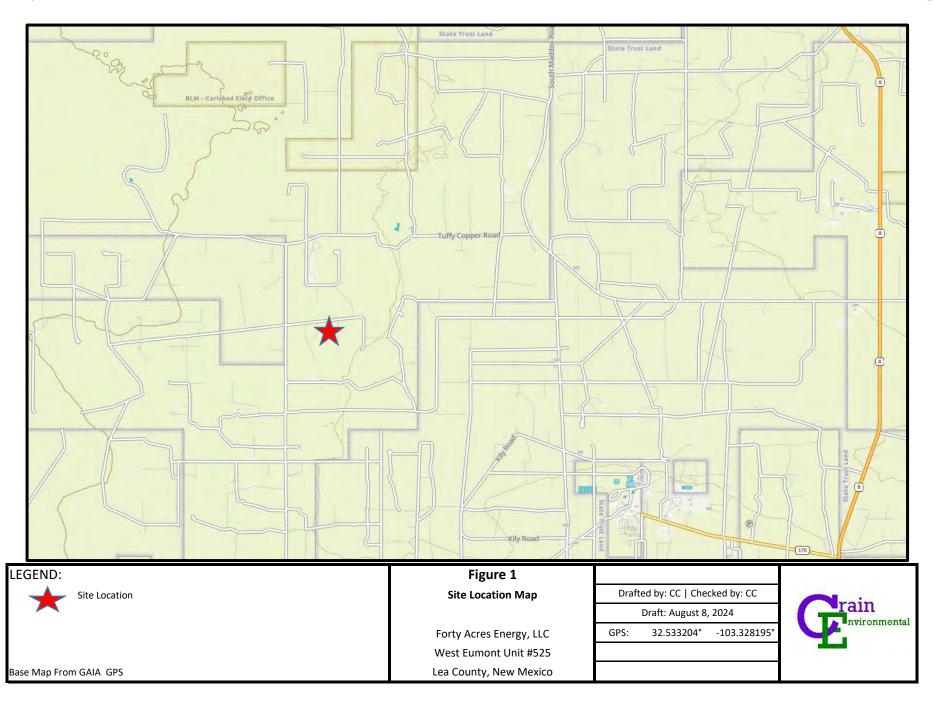
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
								milligram	s per kilogran	n (mg/kg)			
NMOC	NMOCD Closure Criteria						100	10	-	-	-	50	600
NMOCD CI	osure Criter	ia (>4' bgs)		GRO + DF	RO = 1,000	-	2,500	10	-	-	-	50	20,000
S-1 (0-4')	07/25/24	0-4'	In Situ	<14.4	15.3	<15.0	15.3 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	10,900
S-2 (0-4')	07/25/24	0-4'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	398
S-3 (0-4')	07/25/24	0-4'	In Situ	<14.5	89.8	<15.1	89.8	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	8,780
S-4 (0-3')	07/25/24	0-3'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	8,540
S-5 (0-4')	07/25/24	0-4'	In Situ	<14.5	47.8	<15.1	47.8 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	5,270
S-6 (2')	07/25/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	70.8
S-7 (5')	07/25/24	5'	In Situ	<14.5	50.9	<15.1	50.9	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	116
S-8 (1')	07/25/24	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	31.8

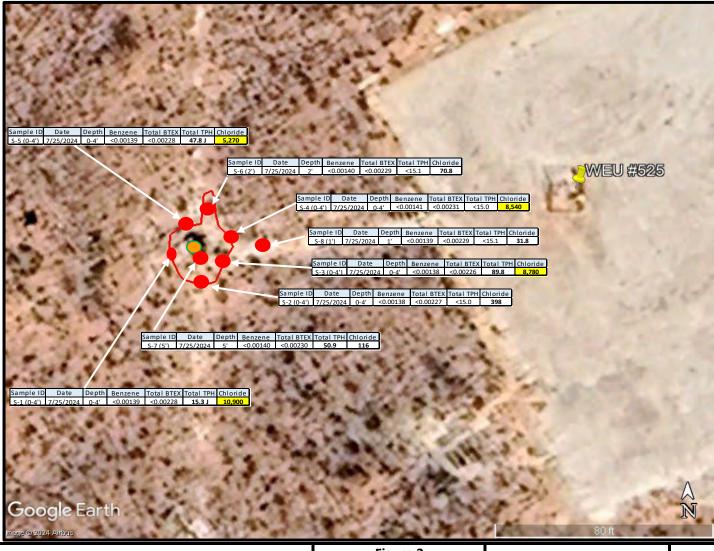
Notes

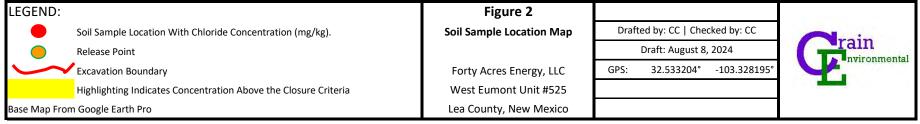
- 1. GRO: Gasoline Range Organics
- 2. DRO: Diesel Range Organics
- 3. MRO: Motor Oil Range Organics
- 4. -: No NMOCD Closure Criteria established.
- 5. bgs: Below Ground Surface
- 6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
- 7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
- 8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
- 9. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

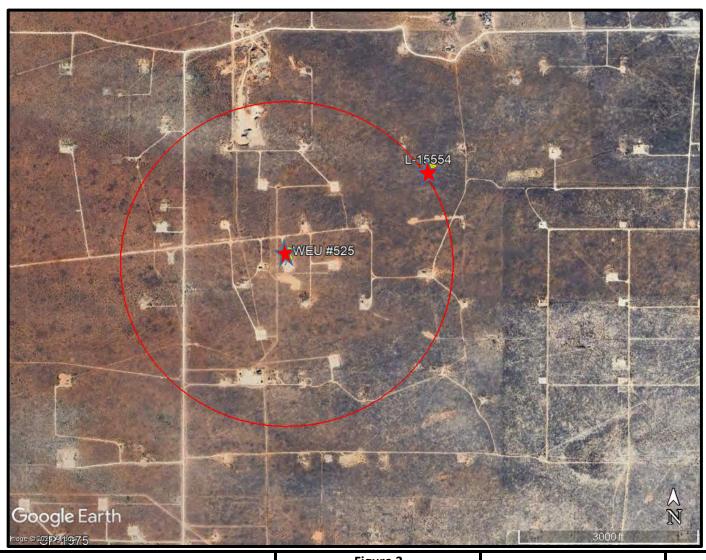


FIGURES











Site Location and Water Well Location

Figure 3
Wellhead Protection Area Map

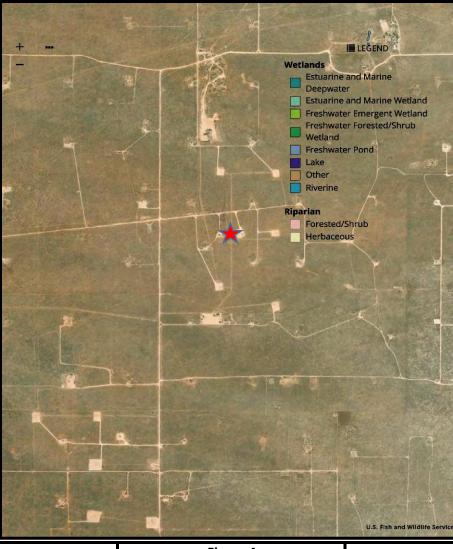
Forty Acres Energy, LLC West Eumont Unit #525 Lea County, New Mexico Drafted by: CC | Checked by: CC

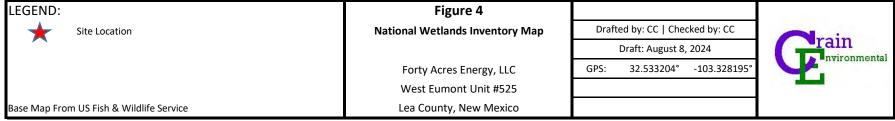
Draft: August 8, 2024

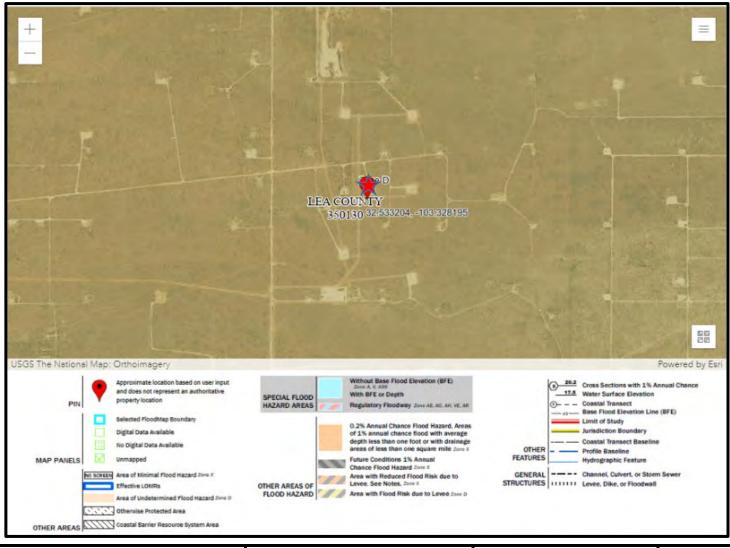
GPS: 32.533204° -103.328195'

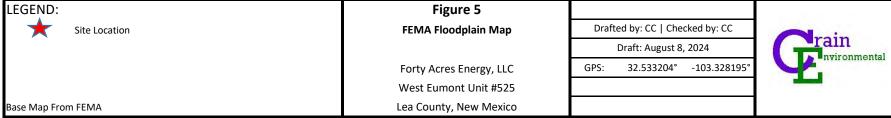


Base Map From Google Earth Pro

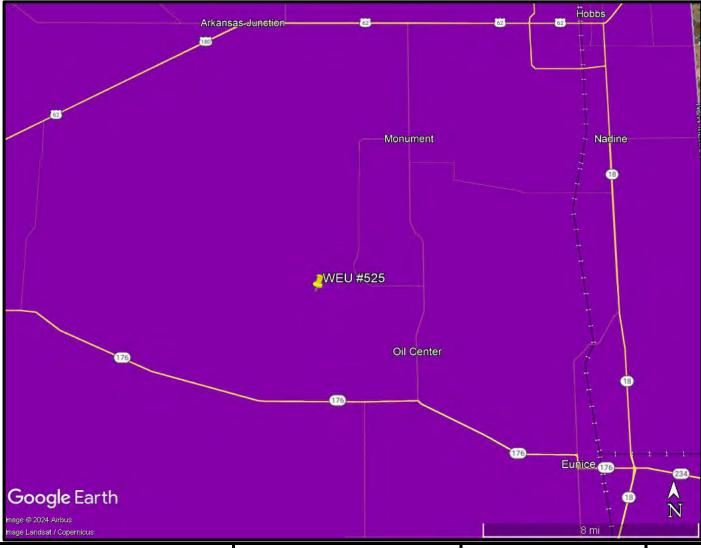


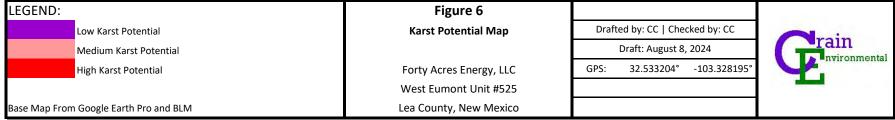






D. J. J. 4. T. 0/12/2024 0.24.45 434







Appendix A: Release Notification and Corrective Action Form (NMOCD Form C-141)

Released Volume Calculation

Length		25 feet
Width		20 feet
Thickness		2 in
	Gals	Bbls

1000 23.80952 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 1000 gallons (US, dry)

23.81 bbls

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 318452

QUESTIONS

	Operator:	OGRID:
	FORTY ACRES ENERGY, LLC	371416
	11757 KATY FWY	Action Number:
ı	HOUSTON, TX 77079173	318452
		Action Type:
		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2405856306		
Incident Name	NAPP2405856306 WEST EUMONT UNIT #525 @ 30-025-45482		
Incident Type	Produced Water Release		
Incident Status	Initial C-141 Received		
Incident Well	[30-025-45482] WEST EUMONT UNIT #525		

Location of Release Source				
Please answer all the questions in this group.				
Site Name	West Eumont Unit #525			
Date Release Discovered	02/22/2024			
Surface Owner	Federal			

Incident Details			
Please answer all the questions in this group.			
Incident Type	Produced Water Release		
Did this release result in a fire or is the result of a fire	No		
Did this release result in any injuries	No		
Has this release reached or does it have a reasonable probability of reaching a watercourse	No		
Has this release endangered or does it have a reasonable probability of endangering public health	No		
Has this release substantially damaged or will it substantially damage property or the environment	No		
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No		

erial(s) released, please answer all that apply below. Any calculations or specific justification	s for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Injection Produced Water Released: 22 BBL Recovered: 17 BBL Lost: 5 BBL.
s the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 318452

QUESTI	ONS (continued)		
Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: Action Num	18452	
	Action Type	: C-141] Initial C-141 (C-141-v-Initial)	
QUESTIONS			
Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this	does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No		
Reasons why this would be considered a submission for a notification of a major release	Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	. gas only) are to be submitted on the C-129 form	:	
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.		
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Not answered.		
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedactions to date in the follow-up C-141 submission. If remedial efforts have been successfully comple Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e	ed or if the release occurred within a lined contain		
I hereby certify that the information given above is true and complete to the best of my lot oreport and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	ses which may endanger public health or t dequately investigate and remediate conta	he environment. The acceptance of a C-141 report by mination that pose a threat to groundwater, surface	
I hereby agree and sign off to the above statement	Name: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com		

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QUESTIONS, Page 3

Action 318452

QUESTIONS (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	318452
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization					
Please answer all the questions in this group (only required when seeking remediation plan approval release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the				
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.				
What method was used to determine the depth to ground water	Not answered.				
Did this release impact groundwater or surface water	Not answered.				
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:				
A continuously flowing watercourse or any other significant watercourse	Not answered.				
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.				
An occupied permanent residence, school, hospital, institution, or church	Not answered.				
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.				
Any other fresh water well or spring	Not answered.				
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.				
A wetland	Not answered.				
A subsurface mine	Not answered.				
An (non-karst) unstable area	Not answered.				
Categorize the risk of this well / site being in a karst geology	Not answered.				
A 100-year floodplain	Not answered.				
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.				

Remediation Plan					
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.					
Requesting a remediation plan approval with this submission No					
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.					

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 318452

CONDITIONS

Operator:	OGRID:		
FORTY ACRES ENERGY, LLC	371416		
	Action Number:		
HOUSTON, TX 77079173	318452		
	Action Type:		
	[C-141] Initial C-141 (C-141-v-Initial)		

CONDITIONS

Created By	v Condition	Condition Date
scwells	None	2/28/2024

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2405454076
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Forty Acres Energy, LLC				OGRID	3/1410		
Contact Name Alex Bolanos				Contact Te	Contact Telephone (832) 689-3788		
Contact ema	il ale	ex@faenergyus.com	n	Incident #	t (assigned by OCD) nAPP2405856306		
Contact mail	ing address	11757 Katy Fw	y, Houston, TX 7	7079173			
		11707 12409 1 11	<i>y</i> , 110 aston, 111 /	7077173	_		
			Location	of Release So	ource		
Latitude	32.53320	04		Longitude	-103.328195		
			(NAD 83 in dec	cimal degrees to 5 decin			
Site Name	West Fi	umont Unit #525		Site Type	Well		
Date Release		02/22/2024		API# (if app			
		02/22/2024			30-023-43462		
Unit Letter	Section	Township	Range	Coun	nty		
F	35	20S	36E	Lea			
G			11 D D :				
Surface Owne	r: State	X Federal Tr	ibal Private (/	Name:)		
			Nature and	l Volume of I	Release		
	Moterio	l(s) Palansad (Salant nl	I that apply and attach	calculations or specific	c justification for the volumes provided below)		
Crude Oi		Volume Release		calculations of specific	Volume Recovered (bbls)		
X Produced	Water	Volume Release	d (bbls) 22		Volume Recovered (bbls) 17		
		Is the concentrat	ion of dissolved c	hloride in the	Yes X No		
produced water >10,000 mg/l?							
Condensate Volume Released (bbls)			d (bbls)		Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			d (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units		e units)	Volume/Weight Recovered (provide units)				
Cause of Rel							
]	Flow line release					

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Incident ID nAPP2405856306
District RP
Facility ID
Application ID

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?
Yes X No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Yes. James Martinez to Mike Bratch	er on 2/22/24
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
X The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr failed to adequately investig	nent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Cindy Crai		Title: Agent for Forty Acres Energy, LLC
Signature:	g Crain	Date: <u>8/9/24</u>
email: <u>cindy.crain@g</u>	gmail.com	Telephone: (575) 441-7244
OCD Only		
OCD OMY		
Received by:		Date:

nAPP2405856306

Incident ID District RP Facility ID Application ID

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes X No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes X No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes X No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes X No			
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No			
Are the lateral extents of the release overlying a subsurface mine?	Yes X No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🏻 No			
Are the lateral extents of the release within a 100-year floodplain?	Yes X No			
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characteristics Depart Charlette Ford of the Charlette State of the				

Characterization Report Checklist: Each of the following items must be included in the report.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- Data table of soil contaminant concentration data
- X Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 8/9/2024 2:56:08 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	rage 2/ oj /
Incident ID	nAPP2405856306
District RP	
Facility ID	
Application ID	

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State of New Mexico

Incident ID	nAPP2405856306
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be inc	cluded in the plan.			
 X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation points X Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.12(C X Proposed schedule for remediation (note if remediation plan timeling) 				
Deferral Requests Only: Each of the following items must be confirm	ned as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the	e environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Cindy Crain Ti	tle: Agent for Forty Acres Energy, LLC			
Signature: D	Pate: 8/9/24			
email: <u>cindy.crain@gmail.com</u> To	elephone: (575) 441-7244			
OCD Only				
Received by: Date of the Description of the Descrip	ate:			
☐ Approved	roval			
Signature: Dat	e:			



Appendix B: NMOCD Correspondence

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >

Sent: Tuesday, July 30, 2024 4:09 PM
To: Alex Bolanos alex@faenergyus.com

Subject: Re: [EXTERNAL] Forty Acres Energy C-141 Extension Request

Good afternoon Alex,

Thank you for the inquiry. Your time extension is approved. Remediation Due date has been updated to August 20, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd_



From: Alex Bolanos < alex@faenergyus.com >

Sent: Friday, July 12, 2024 10:01 AM

To: Velez, Nelson, EMNRD < Nelson.Velez@emnrd.nm.gov >

Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Forty Acres Energy C-141 Extension Request

Thank you Nelson for providing additional time on these. We will be working them over the next few weeks. We did get a characterization submitted on the #410 & #210. There was one in addition to the ones I requested an extension on last week that we need a little more time on. Please see below.

Thanks

Alex

Incident Number	Location	Engineer	Operational Status	Filing Status	Current OCD Due Date	Surface Owner	En En
nAPP2405856306	WEU 525	Ryan	CLEANED UP SPILL	C-141 Notification Sent	5/22/2024	Private	Cindy putting together Char report. Hiring new



Appendix C: Well Record and Log

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

Z	OSE POD NO. (WELL NO.) Pod-1 WELL TAG ID NO.						OSE FILE NO(S). L-15554						
1. GENERAL AND WELL LOCATION	WELL OWNER NAME(S) Forty Acres Energy							PHONE (OPTIONAL) 346-254-9544					
	WELL OWN 11757 Kat	NG ADDRESS			CITY		CITY Houston		STATE TX	77079	ZIP		
	WELL LOCATION (FROM GPS)		ATTTUDE	32 32 1		SECON 13.	.6 N	THE R. LEWIS CO., LANSING	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
		L	LONGITUDE -103 19 13.9 W *DATUM REQUIRED: WGS 84 RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIIP, RANGE) WHERE AVAILABLE										
	LICENSE NO		NAME OF LICENSED	NAME OF LICENSED DRILLER Boyd Coffey				NAME OF WELL DRILLING COMPANY Coffey Drilling					
	DRILLING STARTED 8-25-2023		DRILLING ENDED 8-25-2023	DEPTH OF COMPLETED WELL (FT) 105		FT)		105 DEPTH WATER FIRST ENCOUNTE NA			TERED (FT)		
2. DRILLING & CASING INFORMATION	COMPLETE	D WELL IS	: ARTESIAN	✓ DRY HOLE SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA				
	DRILLING F	LUID:	✓ AIR	MUD	ADDITI	IVES - SPEC	IFY:		•				
	DRILLING N	METHOD:	₹ ROTARY	HAMMEI	R CABLE	TOOL	OTHE	ER – SPECIFY:					
	DEPTH (feet bgl)		BORE HOLE	CASING MATERIAL AND/OR		D/OR	12	eleta i	CASING CASING WAL THICKNESS (inches)		NO WALL	01 1 2052	
	FROM	то	DIAM (inches)	GRADE (include each casing string, and note sections of screen)		g, and	CASING CONNECTION TYPE (add coupling diameter)				CKNESS	SLOT SIZE (inches)	
	0	100	6.5		2 3/8	-7		readed	2	SCh 40			
	100	105	6.5		2 3/8	- 4	Th	nreaded	2	5	SCH 40	0.035	
3. ANNULAR MATERIAL	DEPTH (feet bgl) BORE HOLE DIAM. (inches)				LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL						METHO PLACEN		
	FROM TO 0 20		6.5	Bentonite Quick grout			and the same	(Auto and A		Trem	Tremie		
	20 105			Native fill			22			Pour			
	OSE INTER	NAL US	E		1				0 WELL RECORD	& LOG (Version 04/3	0/19)	
_	E NO.				POD N	0.		TRN			Tai co	LODA	
LOC	CATION							WELL TAG II	D NO.		PAGE	1 OF 2	

	DEPTH (feet bgl)			Control of the Control of the	4440555		ESTIMATED		
4. HYDROGEOLOGIC LOG OF WELL	FROM TO		THICKNESS (feet)	COLOR AND TYPE OF MATERI. INCLUDE WATER-BEARING CAVITI (attach supplemental sheets to fu	WATER BEARING? (YES/NO)	YIELD FOR WATER- BEARING ZONES (gpm)			
	0 6		6	Tan Top soil		Y /N			
	6	48	42	White Calich	e	Y /N			
	48	96	48	Tan Soft SandSi	one	Y /N			
	96	100	4	Red Clay		Y VN			
	100 105		5	Course sand and g	gravel	Y /N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N	114-114		
						Y N			
						Y N			
	METHOD U			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:		TOTAL ESTIMATED WELL YIELD (gpm):	0.00		
TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE MI START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD								
	MISCELLANEOUS INFORMATION: PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE								
6. SIGNATURE 5.	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.								
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE								
FO	R OSE INTERN	JAI TICE			WD 20 WELL	. RECORD & LOG (Ver	sion 04/20/201		
	E NO.	AL USE		POD NO.	TRN NO.	. KECOKD & LOG (Vei	SIOII 04/30/201		
LO	CATION				WELL TAG ID NO		PAGE 2 OF		



Appendix D: Laboratory Report and Chain-of-Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Crain Crain Environmental 2925 E. 17th St. Odessa, Texas 79761

Generated 8/1/2024 12:26:56 PM Revision 1

JOB DESCRIPTION

West Eumont Unit #525

JOB NUMBER

880-46542-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 8/1/2024 12:26:56 PM Revision 1

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 •

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1

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10

4.0

13

14

Laboratory Job ID: 880-46542-1

Client: Crain Environmental Project/Site: West Eumont Unit #525

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Sample Summary	26
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2

3

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13

Definitions/Glossary

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

 $\overline{\mathbf{I}}$ Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

Listed under the "D" column to designate that the result is reported on a dry weight basis ¤

%R Percent Recovery CFL Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Released to Imaging: 8/12/2024 9:24:45 AM

Case Narrative

Client: Crain Environmental Project: West Eumont Unit #525 Job ID: 880-46542-1

Eurofins Midland Job ID: 880-46542-1

> Job Narrative 880-46542-1

REVISION

The report being provided is a revision of the original report sent on 7/31/2024. The report (revision 1) is being revised due to Per client email, requesting project info to be added to report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/26/2024 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-4') (880-46542-1), S-2 (0-4') (880-46542-2), S-3 (0-4') (880-46542-3), S-4 (0-3') (880-46542-4), S-5 (0-4') (880-46542-5), S-6 (2') (880-46542-6), S-7 (5') (880-46542-7) and S-8 (1') (880-46542-8).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-86819/3-A) and (MB 880-86819/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-1 (0-4') Lab Sample ID: 880-46542-1

Date Collected: 07/25/24 12:20 **Matrix: Solid** Date Received: 07/26/24 13:40

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Toluene	< 0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Ethylbenzene	< 0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
o-Xylene	< 0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				07/29/24 09:18	07/29/24 12:32	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/29/24 09:18	07/29/24 12:32	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/24 12:32	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.3	J	49.6	15.0	mg/Kg			07/30/24 15:44	1
Method: SW846 8015B NM	- Diesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		07/26/24 15:33	07/30/24 15:44	1
Diesel Range Organics (Over C10-C28)	15.3	J	49.6	15.0	mg/Kg		07/26/24 15:33	07/30/24 15:44	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		07/26/24 15:33	07/30/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4.064			70 400				07/00/04 45 00	07/00/04 45:44	

Surrogate	/or tecovery	Qualifier	Lilling	Trepared	Allalyzea	Diriac
1-Chlorooctane	90		70 - 130	07/26/24 15:33	07/30/24 15:44	1
o-Terphenyl	82		70 - 130	07/26/24 15:33	07/30/24 15:44	1
Method: EPA 300.0 - Anions, Id	on Chroma	tography -	Soluble			

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 10900 99.4 7.85 mg/Kg 07/30/24 21:10 Lab Sample ID: 880-46542-2

Date Collected: 07/25/24 12:25 Date Received: 07/26/24 13:40

Client Sample ID: S-2 (0-4')

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
o-Xylene	< 0.00157	U	0.00199	0.00157	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				07/29/24 09:18	07/29/24 12:53	1

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Matrix: Solid

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-2 (0-4') Lab Sample ID: 880-46542-2 **Matrix: Solid**

Date Collected: 07/25/24 12:25 Date Received: 07/26/24 13:40

Sample Depth: 0-4'

) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86	70 - 130	07/29/24 09:18	07/29/24 12:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/24 12:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			07/30/24 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		07/26/24 15:33	07/30/24 16:01	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		07/26/24 15:33	07/30/24 16:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		07/26/24 15:33	07/30/24 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130	07/26/24 15:33	07/30/24 16:01	1
o-Terphenyl	78	70 - 130	07/26/24 15:33	07/30/24 16:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	398		4.96	0.392	mg/Kg			07/30/24 21:33	1

Client Sample ID: S-3 (0-4')

Date Collected: 07/25/24 12:30

Date Received: 07/26/24 13:40

Sample Depth: 0-4'

Method: SW846 8021B	- Volatile Organic (Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
o-Xylene	< 0.00157	U	0.00198	0.00157	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				07/29/24 09:18	07/29/24 13:13	1
1,4-Difluorobenzene (Surr)	86		70 - 130				07/29/24 09:18	07/29/24 13:13	1

Method: T	ΊΔΊ	SOP	Total	RTFY	- Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			07/29/24 13:13	1

	Method: SW846	8015 NM - Diesel	Range Ord	ganics ((DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.8	49.8	15.1 mg/Kg			07/30/24 16:32	1

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Lab Sample ID: 880-46542-3

Matrix: Solid

Client Sample Results

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-3 (0-4') Lab Sample ID: 880-46542-3

Matrix: Solid

Date Collected: 07/25/24 12:30 Date Received: 07/26/24 13:40

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/26/24 15:33	07/30/24 16:32	1
Diesel Range Organics (Over C10-C28)	89.8		49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 16:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/26/24 15:33	07/30/24 16:32	1
o-Terphenyl	85		70 - 130				07/26/24 15:33	07/30/24 16:32	1

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 7.87 mg/Kg 99.6 07/30/24 21:41 **Chloride** 8780 20

Client Sample ID: S-4 (0-3') Lab Sample ID: 880-46542-4 Date Collected: 07/25/24 12:35 **Matrix: Solid**

Date Received: 07/26/24 13:40

Sample Depth: 0-3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
o-Xylene	< 0.00160	U	0.00202	0.00160	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				07/29/24 09:18	07/29/24 13:34	1
1,4-Difluorobenzene (Surr)	86		70 - 130				07/29/24 09:18	07/29/24 13:34	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Method: TAL SOP Total BT Analyte		X Calculat Qualifier	i <mark>on</mark> RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL 0.00231		<u>D</u>	Prepared	Analyzed 07/29/24 13:34	Dil Fac
Analyte Total BTEX	<0.00231	Qualifier U	RL 0.00404			<u>D</u>	Prepared		
Analyte	Result <0.00231 Diesel Range	Qualifier U	RL 0.00404	0.00231		<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: SW846 8015 NM -	Result <0.00231 Diesel Range	Qualifier U Organics (Qualifier	RL 0.00404 DRO) (GC)	0.00231	mg/Kg	— = 	· ·	07/29/24 13:34	1
Analyte Total BTEX Method: SW846 8015 NM - Analyte	Result <0.00231 Diesel Range Result <15.0	Qualifier U Organics (Qualifier U	RL 0.00404 DRO) (GC) RL 49.7	0.00231 MDL 15.0	mg/Kg	— = 	· ·	07/29/24 13:34 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	Piesel Range Result <0.00231 Diesel Range Result <15.0 - Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00404 DRO) (GC) RL 49.7	0.00231 MDL 15.0	mg/Kg	— = 	· ·	07/29/24 13:34 Analyzed	
Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	Piesel Range Result <0.00231 Diesel Range Result <15.0 - Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier U	RL 0.00404 DRO) (GC) RL 49.7	0.00231 MDL 15.0	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared	07/29/24 13:34 Analyzed 07/30/24 16:48	Dil Fac

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Dil Fac

07/26/24 15:33 07/30/24 16:48

07/26/24 15:33 07/30/24 16:48

07/26/24 15:33 07/30/24 16:48

07/26/24 15:33 07/30/24 16:48

Analyzed

Prepared

49.7

49.7

Limits

70 - 130

70 - 130

15.0 mg/Kg

15.0 mg/Kg

<15.0 U

<15.0 U

%Recovery Qualifier

79

71

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-4 (0-3')

Lab Sample ID: 880-46542-4 Date Collected: 07/25/24 12:35

Matrix: Solid

Date Received: 07/26/24 13:40

Client: Crain Environmental

Sample Depth: 0-3'

Method: EPA 300.0 - Anions, I	on Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8540	49.5	3.91 mg/Kg			07/30/24 21:49	10

Client Sample ID: S-5 (0-4') Lab Sample ID: 880-46542-5

Date Collected: 07/25/24 12:40 Date Received: 07/26/24 13:40

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				07/29/24 09:18	07/29/24 13:54	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/29/24 09:18	07/29/24 13:54	1

Method: IAL SUP Total BTEX	- Iotal BIE	x Caicula	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/24 13:54	1
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Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	47.8	J	49.8	15.1	mg/Kg			07/30/24 17:03	1

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:03	1
Diesel Range Organics (Over C10-C28)	47.8	J	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/26/24 15:33	07/30/24 17:03	1
o-Terphenyl	80		70 - 130				07/26/24 15:33	07/30/24 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5270		50.4	3.98	mg/Kg			07/30/24 21:57	10

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Matrix: Solid

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-6 (2')

Lab Sample ID: 880-46542-6

Date Collected: 07/25/24 12:45
Date Received: 07/26/24 13:40

Matrix: Solid

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Toluene	< 0.00201	U	0.00201	0.00201	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Ethylbenzene	< 0.00109	U	0.00201	0.00109	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
o-Xylene	< 0.00159	U	0.00201	0.00159	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				07/29/24 09:18	07/29/24 14:14	1
1,4-Difluorobenzene (Surr)	85		70 - 130				07/29/24 09:18	07/29/24 14:14	1
Total BTEX Method: SW846 8015 NM - Die	<0.00229		0.00402 DRO) (GC)	0.00229	mg/kg			07/29/24 14:14	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			07/30/24 17:19	1
Method: SW846 8015B NM - D	iesel Range	o Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:19	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 Chlorocotono	00		70 120				07/26/24 15:22		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/26/24 15:33	07/30/24 17:19	1
o-Terphenyl	78		70 - 130	07/26/24 15:33	07/30/24 17:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.8	4.97	0.393 mg/Kg			07/30/24 22:21	1

Client Sample ID: S-7 (5')
Date Collected: 07/25/24 12:50
Date Received: 07/26/24 13:40

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Ethylbenzene	< 0.00110	U	0.00201	0.00110	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/29/24 09:18	07/29/24 14:35	1

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Lab Sample ID: 880-46542-7

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Matrix: Solid

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Lab Sample ID: 880-46542-7 Client Sample ID: S-7 (5')

Date Collected: 07/25/24 12:50 **Matrix: Solid** Date Received: 07/26/24 13:40

Sample Depth: 5'

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	07/29/24 09:18 07/29/24 14:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg		_	07/29/24 14:35	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.9	50.0	15.1 mg/Kg			07/30/24 17:34	1

		- (-::-) (-:)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5 U	50.0	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:34	1
Diesel Range Organics (Over C10-C28)	50.9	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:34	1
Oil Range Organics (Over C28-C36)	<15.1 U	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:34	1
Surrogate	%Recovery Qualifier	l imite				Propared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	07/26/24 15:33	07/30/24 17:34	1
o-Terphenyl	86		70 - 130	07/26/24 15:33	07/30/24 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.01	0.396	mg/Kg			07/30/24 22:29	1

Lab Sample ID: 880-46542-8 Client Sample ID: S-8 (1') **Matrix: Solid**

Date Collected: 07/25/24 12:55 Date Received: 07/26/24 13:40

Sample Depth: 1'

Mothod: CIMOAC 9024D	Volatila Organia Compounde (C)	\sim

	rolatile el gallie	- opou	uo (o o)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				07/29/24 09:18	07/29/24 14:55	1
1,4-Difluorobenzene (Surr)	86		70 - 130				07/29/24 09:18	07/29/24 14:55	1

Mothod: TAI	COD Total RTEY	 Total BTFX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			07/29/24 14:55	1

Method: SW846 8015 NM - Diesel Rang	ge Organics (DRO) (GC
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1 U	49.8	15.1 mg/Kg			07/30/24 17:49	1

Client Sample Results

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Lab Sample ID: 880-46542-8 Client Sample ID: S-8 (1') Date Collected: 07/25/24 12:55

Matrix: Solid

Date Received: 07/26/24 13:40 Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/26/24 15:33	07/30/24 17:49	1
o-Terphenyl	86		70 - 130				07/26/24 15:33	07/30/24 17:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		5.05	0.399	mg/Kg			07/30/24 22:36	1

Surrogate Summary

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46542-1	S-1 (0-4')	121	87	
880-46542-2	S-2 (0-4')	120	86	
880-46542-3	S-3 (0-4')	119	86	
880-46542-4	S-4 (0-3')	121	86	
880-46542-5	S-5 (0-4')	123	87	
880-46542-6	S-6 (2')	122	85	
880-46542-7	S-7 (5')	122	87	
880-46542-8	S-8 (1')	121	86	
880-46546-A-1-D MS	Matrix Spike	117	90	
880-46546-A-1-E MSD	Matrix Spike Duplicate	117	90	
LCS 880-86874/1-A	Lab Control Sample	123	92	
LCSD 880-86874/2-A	Lab Control Sample Dup	116	90	
	Method Blank	117	81	

DFBZ = 1,4-Diffuorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate	Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46540-A-1-C MS	Matrix Spike	111	90	
880-46540-A-1-D MSD	Matrix Spike Duplicate	110	89	
880-46542-1	S-1 (0-4')	90	82	
880-46542-2	S-2 (0-4')	88	78	
880-46542-3	S-3 (0-4')	92	85	
880-46542-4	S-4 (0-3')	79	71	
880-46542-5	S-5 (0-4')	89	80	
880-46542-6	S-6 (2')	90	78	
880-46542-7	S-7 (5')	94	86	
880-46542-8	S-8 (1')	99	86	
LCS 880-86819/2-A	Lab Control Sample	116	96	
LCSD 880-86819/3-A	Lab Control Sample Dup	132 S1+	111	
MB 880-86819/1-A	Method Blank	95	163 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Crain Environmental

Job ID: 880-46542-1 Project/Site: West Eumont Unit #525

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-86874/5-A

Matrix: Solid

Analysis Batch: 86860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86874

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 12:10	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/29/24 09:18 07/29/24 12:10	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/29/24 09:18 07/29/24 12:10	1

Lab Sample ID: LCS 880-86874/1-A

Matrix: Solid

Analysis Batch: 86860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86874

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1161		mg/Kg		116	70 - 130	
Toluene	0.100	0.1109		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1075		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2334		mg/Kg		117	70 - 130	
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-86874/2-A

Matrix: Solid

Analysis Batch: 86860

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 86874

Spike	LCSD LCSD			%Rec		RPD
Added	Result Qualifier	Unit E	%Rec	Limits	RPD	Limit
0.100	0.1089	mg/Kg	109	70 - 130	6	35
0.100	0.1040	mg/Kg	104	70 - 130	6	35
0.100	0.1008	mg/Kg	101	70 - 130	6	35
0.200	0.2195	mg/Kg	110	70 - 130	6	35
0.100	0.1103	mg/Kg	110	70 - 130	6	35
	0.100 0.100 0.100 0.100 0.200	Added Result Qualifier 0.100 0.1089 0.100 0.1040 0.100 0.1008 0.200 0.2195	Added Result Qualifier Unit E 0.100 0.1089 mg/Kg 0.100 0.1040 mg/Kg 0.100 0.1008 mg/Kg 0.200 0.2195 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1089 mg/Kg 109 0.100 0.1040 mg/Kg 104 0.100 0.1008 mg/Kg 101 0.200 0.2195 mg/Kg 110	Added Result Qualifier Unit D %Rec Limits 0.100 0.1089 mg/Kg 109 70 - 130 0.100 0.1040 mg/Kg 104 70 - 130 0.100 0.1008 mg/Kg 101 70 - 130 0.200 0.2195 mg/Kg 110 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1089 mg/Kg 109 70 - 130 6 0.100 0.1040 mg/Kg 104 70 - 130 6 0.100 0.1008 mg/Kg 101 70 - 130 6 0.200 0.2195 mg/Kg 110 70 - 130 6

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-46546-A-1-D MS

Matrix: Solid

Analysis Batch: 86860

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 86874

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00141	U	0.100	0.1153		mg/Kg		115	70 - 130	
Toluene	<0.00202	U	0.100	0.1098		mg/Kg		110	70 - 130	

QC Sample Results

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Matrix: Solid

Analysis Batch: 86860

Lab Sample ID: 880-46546-A-1-D MS

Client Sample ID: Matrix Spike

Prep Type: Total/NA
Prep Batch: 86874
%Rec

Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00110 U 0.100 0.1059 mg/Kg 106 70 - 130 m-Xylene & p-Xylene <0.00231 U 0.200 0.2303 mg/Kg 115 70 - 130 o-Xylene <0.00160 U 0.100 0.1150 mg/Kg 115 70 - 130

Spike

MS MS

MS MS

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 86874

Lab Sample ID: 880-46546-A-1-E MSD **Matrix: Solid** Analysis Batch: 86860

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_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00141	U	0.100	0.1077		mg/Kg		108	70 - 130	7	35
Toluene	<0.00202	U	0.100	0.1021		mg/Kg		102	70 - 130	7	35
Ethylbenzene	<0.00110	U	0.100	0.09879		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene	<0.00231	U	0.200	0.2141		mg/Kg		107	70 - 130	7	35
o-Xylene	<0.00160	U	0.100	0.1077		mg/Kg		108	70 - 130	7	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-86819/1-A

Matrix: Solid

Analysis Batch: 86941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86819

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/26/24 15:33	07/30/24 10:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 10:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 10:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	07/26/24 15:33	07/30/24 10:25	1
o-Terphenyl	163	S1+	70 - 130	07/26/24 15:33	07/30/24 10:25	1

Lab Sample ID: LCS 880-86819/2-A

Matrix: Solid

Analysis Batch: 86941

Client Sample I	D: Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 86819

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1097		mg/Kg		110	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1048		mg/Kg		105	70 - 130	
C10-C28)								

QC Sample Results

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-86819/2-A

Matrix: Solid

Analysis Batch: 86941

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 86819

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 116 70 - 130 o-Terphenyl 96 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-86819/3-A

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 86941** Prep Batch: 86819

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1084 mg/Kg 108 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1122 mg/Kg 112 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 132 S1+ 70 - 130 70 - 130 o-Terphenyl 111

Lab Sample ID: 880-46540-A-1-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 86941** Prep Batch: 86819 Sample Sample Spike MS MS %Rec

Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <14.5 U Gasoline Range Organics 996 1111 mg/Kg 112 70 - 130 (GRO)-C6-C10 996 Diesel Range Organics (Over <15.1 U 981.2 mg/Kg 99 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 111 o-Terphenyl 90 70 - 130

Lab Sample ID: 880-46540-A-1-D MSD

Matrix: Solid

Analysis Batch: 86941									Prep E	Satch: 8	86819
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	1101		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over	<15.1	U	996	928.1		mg/Kg		93	70 - 130	6	20

C10-C28)

	IVISD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Ternhenyl	89		70 130

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Prep Type: Total/NA

QC Sample Results

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-86856/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 86912

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	< 0.395	U	5.00	0.395	ma/Ka			07/30/24 20:46	1

Lab Sample ID: LCS 880-86856/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86912

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	262.9		mg/Kg	_	105	90 - 110	

Lab Sample ID: LCSD 880-86856/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 86912

		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Chloride	250	265.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-46542-1 MS Client Sample ID: S-1 (0-4') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 86912

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	10900		4970	15890		mg/Kg		100	90 - 110	

Lab Sample ID: 880-46542-1 MSD Client Sample ID: S-1 (0-4') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86912

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	10900		4970	15950		mg/Kg		101	90 - 110	0	20

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QC Association Summary

Client: Crain Environmental

Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

GC VOA

Analysis Batch: 86860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8021B	86874
880-46542-2	S-2 (0-4')	Total/NA	Solid	8021B	86874
880-46542-3	S-3 (0-4')	Total/NA	Solid	8021B	86874
880-46542-4	S-4 (0-3')	Total/NA	Solid	8021B	86874
880-46542-5	S-5 (0-4')	Total/NA	Solid	8021B	86874
880-46542-6	S-6 (2')	Total/NA	Solid	8021B	86874
880-46542-7	S-7 (5')	Total/NA	Solid	8021B	86874
880-46542-8	S-8 (1')	Total/NA	Solid	8021B	86874
MB 880-86874/5-A	Method Blank	Total/NA	Solid	8021B	86874
LCS 880-86874/1-A	Lab Control Sample	Total/NA	Solid	8021B	86874
LCSD 880-86874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	86874
880-46546-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	86874
880-46546-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	86874

Prep Batch: 86874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	5035	_
880-46542-2	S-2 (0-4')	Total/NA	Solid	5035	
880-46542-3	S-3 (0-4')	Total/NA	Solid	5035	
880-46542-4	S-4 (0-3')	Total/NA	Solid	5035	
880-46542-5	S-5 (0-4')	Total/NA	Solid	5035	
880-46542-6	S-6 (2')	Total/NA	Solid	5035	
880-46542-7	S-7 (5')	Total/NA	Solid	5035	
880-46542-8	S-8 (1')	Total/NA	Solid	5035	
MB 880-86874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-86874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-86874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46546-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-46546-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-2	S-2 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-3	S-3 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-4	S-4 (0-3')	Total/NA	Solid	Total BTEX	
880-46542-5	S-5 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-6	S-6 (2')	Total/NA	Solid	Total BTEX	
880-46542-7	S-7 (5')	Total/NA	Solid	Total BTEX	
880-46542-8	S-8 (1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 86819

Lab Sample ID 880-46542-1	S-1 (0-4')	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
880-46542-2	S-2 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-3	S-3 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-4	S-4 (0-3')	Total/NA	Solid	8015NM Prep	
880-46542-5	S-5 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-6	S-6 (2')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Crain Environmental

Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

GC Semi VOA (Continued)

Prep Batch: 86819 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-7	S-7 (5')	Total/NA	Solid	8015NM Prep	
880-46542-8	S-8 (1')	Total/NA	Solid	8015NM Prep	
MB 880-86819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-86819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-86819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46540-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46540-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 86941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-2	S-2 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-3	S-3 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-4	S-4 (0-3')	Total/NA	Solid	8015B NM	86819
880-46542-5	S-5 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-6	S-6 (2')	Total/NA	Solid	8015B NM	86819
880-46542-7	S-7 (5')	Total/NA	Solid	8015B NM	86819
880-46542-8	S-8 (1')	Total/NA	Solid	8015B NM	86819
MB 880-86819/1-A	Method Blank	Total/NA	Solid	8015B NM	86819
LCS 880-86819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	86819
LCSD 880-86819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	86819
880-46540-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	86819
880-46540-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	86819

Analysis Batch: 87100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8015 NM	-
880-46542-2	S-2 (0-4')	Total/NA	Solid	8015 NM	
880-46542-3	S-3 (0-4')	Total/NA	Solid	8015 NM	
880-46542-4	S-4 (0-3')	Total/NA	Solid	8015 NM	
880-46542-5	S-5 (0-4')	Total/NA	Solid	8015 NM	
880-46542-6	S-6 (2')	Total/NA	Solid	8015 NM	
880-46542-7	S-7 (5')	Total/NA	Solid	8015 NM	
880-46542-8	S-8 (1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 86856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Soluble	Solid	DI Leach	
880-46542-2	S-2 (0-4')	Soluble	Solid	DI Leach	
880-46542-3	S-3 (0-4')	Soluble	Solid	DI Leach	
880-46542-4	S-4 (0-3')	Soluble	Solid	DI Leach	
880-46542-5	S-5 (0-4')	Soluble	Solid	DI Leach	
880-46542-6	S-6 (2')	Soluble	Solid	DI Leach	
880-46542-7	S-7 (5')	Soluble	Solid	DI Leach	
880-46542-8	S-8 (1')	Soluble	Solid	DI Leach	
MB 880-86856/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86856/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86856/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46542-1 MS	S-1 (0-4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental

Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

HPLC/IC (Continued)

Leach Batch: 86856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1 MSD	S-1 (0-4')	Soluble	Solid	DI Leach	

Analysis Batch: 86912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Soluble	Solid	300.0	86856
880-46542-2	S-2 (0-4')	Soluble	Solid	300.0	86856
880-46542-3	S-3 (0-4')	Soluble	Solid	300.0	86856
880-46542-4	S-4 (0-3')	Soluble	Solid	300.0	86856
880-46542-5	S-5 (0-4')	Soluble	Solid	300.0	86856
880-46542-6	S-6 (2')	Soluble	Solid	300.0	86856
880-46542-7	S-7 (5')	Soluble	Solid	300.0	86856
880-46542-8	S-8 (1')	Soluble	Solid	300.0	86856
MB 880-86856/1-A	Method Blank	Soluble	Solid	300.0	86856
LCS 880-86856/2-A	Lab Control Sample	Soluble	Solid	300.0	86856
LCSD 880-86856/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86856
880-46542-1 MS	S-1 (0-4')	Soluble	Solid	300.0	86856
880-46542-1 MSD	S-1 (0-4')	Soluble	Solid	300.0	86856

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Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-1 (0-4')

Date Collected: 07/25/24 12:20 Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 15:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 15:44	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	86912	07/30/24 21:10	CH	EET MID

Client Sample ID: S-2 (0-4')

Date Collected: 07/25/24 12:25

Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-2

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 86874 07/29/24 09:18 AA EET MID Prep 5.03 g 5 mL 8021B Total/NA Analysis 5 mL 86860 07/29/24 12:53 MNR **EET MID** 5 mL 1 Total/NA Total BTEX Analysis 87023 07/29/24 12:53 SM **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 87100 07/30/24 16:01 AJ Total/NA Prep 8015NM Prep 10.06 g 10 mL 86819 07/26/24 15:33 EL **EET MID** Total/NA 8015B NM 86941 07/30/24 16:01 AJ Analysis 1 uL 1 uL **EET MID** Soluble 5.04 g 50 mL 86856 07/29/24 08:00 SA Leach DI Leach **EET MID** 300.0 86912 07/30/24 21:33 CH Soluble Analysis 1 50 mL 50 mL **EET MID**

Client Sample ID: S-3 (0-4')

Date Collected: 07/25/24 12:30 Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		5.05 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 13:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 16:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 16:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	86912	07/30/24 21:41	CH	EET MID

Client Sample ID: S-4 (0-3')

Released to Imaging: 8/12/2024 9:24:45 AM

Date Collected: 07/25/24 12:35

Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-4

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 13:34	SM	EET MID

Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Client Sample ID: S-4 (0-3')

Client: Crain Environmental

Lab Sample ID: 880-46542-4

Date Collected: 07/25/24 12:35 **Matrix: Solid** Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87100	07/30/24 16:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 16:48	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	86912	07/30/24 21:49	CH	EET MID

Client Sample ID: S-5 (0-4') Lab Sample ID: 880-46542-5 Date Collected: 07/25/24 12:40

Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:03	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	86912	07/30/24 21:57	CH	EET MID

Client Sample ID: S-6 (2') Lab Sample ID: 880-46542-6 Date Collected: 07/25/24 12:45 **Matrix: Solid**

Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:19	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 22:21	CH	EET MID

Client Sample ID: S-7 (5') Lab Sample ID: 880-46542-7 Date Collected: 07/25/24 12:50 **Matrix: Solid**

Date Received: 07/26/24 13:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:34	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	86819 86941	07/26/24 15:33 07/30/24 17:34		EET MID EET MID

Eurofins Midland

Page 22 of 28

Matrix: Solid

Lab Chronicle

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Lab Sample ID: 880-46542-7 Client Sample ID: S-7 (5')

Date Collected: 07/25/24 12:50 **Matrix: Solid** Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 22:29	CH	EET MID

Lab Sample ID: 880-46542-8 Client Sample ID: S-8 (1')

Date Collected: 07/25/24 12:55 **Matrix: Solid** Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:49	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 22:36	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-46542-1

Project/Site: West Eumont Unit #525

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Progra	am	Identification Number	Expiration Date	
exas	NELAI)	T104704400	06-30-25	
The fall accidents and all the	and the standard to difference of	والمراجع والمراجع المراجع المراجع			
i ne following analyte	s are included in this rebo	rt. Dut the Iaboratory is r	not certified by the doverning author	itv. I nis iist mav ind	
,	s are included in this repo does not offer certification	•	not certified by the governing author	ity. This list may inc	
,	•	•	not certified by the governing author Analyte	ity. This list may inc	
for which the agency	does not offer certification		, , ,	ity. This list may inc	

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8/1/2024 (Rev. 1)

Method Summary

Client: Crain Environmental

Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

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Sample Summary

Client: Crain Environmental

Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-46542-1	S-1 (0-4')	Solid	07/25/24 12:20	07/26/24 13:40	0-4'
880-46542-2	S-2 (0-4')	Solid	07/25/24 12:25	07/26/24 13:40	0-4'
880-46542-3	S-3 (0-4')	Solid	07/25/24 12:30	07/26/24 13:40	0-4'
880-46542-4	S-4 (0-3')	Solid	07/25/24 12:35	07/26/24 13:40	0-3'
880-46542-5	S-5 (0-4')	Solid	07/25/24 12:40	07/26/24 13:40	0-4'
880-46542-6	S-6 (2')	Solid	07/25/24 12:45	07/26/24 13:40	2'
880-46542-7	S-7 (5')	Solid	07/25/24 12:50	07/26/24 13:40	5'
880-46542-8	S-8 (1')	Solid	07/25/24 12:55	07/26/24 13:40	1'

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8/1/2024 (Rev. 1)



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Ord

MANANAI VANI



Project Manager:	Cindy Cain Bill to: (if different)			:)	Ryan Swift				Work Order Comments													
Company Name:	Crain Enironmental			Company Name:			Forty Acres			Progra			ST P	RP	Brownfie	lds RR	C Superfund					
Address:	2925 E	E. 174	n St.		Address:		,	117	57	Katy	Fru	y 5	te. 7.	25	State	of Proje	ect:	M				
City, State ZIP: Odessa TX 79761				City, State ZIP:			Houston 72 77079				Reporting: Level II Level III PST/UST TRRP Level IV											
Phone:	(575)4	41-72	144	Email:	cindy	. Crai	000	mail.	tom;	ryo	re to	enero	y. US	.com	Delive	rables	EC	DD 🗌	- 1	ADaPT	Othe	er:
Project Name:				Turn	Around				- 1			Al	IALYSIS	S REQUE	ST						Preserva	tive Codes
Project Number:				Routine	Rush		Pres. Code													Nor	ne: NO	DI Water: H₂O
Project Location:				Due Date:										-					Ì	Coc	l: Cool	MeOH: Me
Sampler's Name:				TAT starts the	,															HCI	.: HC	HNO 3: HN
PO #:				the lab, if rec	eived by 4:3	30pm	2													H ₂ S	0 ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp	1	Yes No	Wet Ice:	Yes		Parameters													1 '	O 4: HP	
Samples Received Inta		-	Thermomet	er ID:		R4	aran	8015M		M										Nah	ISO 4: NAB	IS
Cooler Custody Seals:	Yes No	N/A	Correction F	actor:	_	- 1	à	3		3										Na;	S ₂ O ₃ : NaS	O 3
Sample Custody Seals:	Yes No	N/A	Temperatur	e Reading:)			28	~	.0										Zn .	Acetate+N	aOH: Zn
Total Containers:			Corrected T	emperature:		. 0			Ø	Shaides										NaC)H+Ascorb	ic Acid: SAPC
Sample Identif	fication	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	HAL	BTEX	C											Sample	Comments
5-1 (0-	4.)	5	7/25/24	1220	0-4'	C	1	\times	\times	\times												
5-2 (0-	4.)	1	1	1225	0-4"	1	1															
5-3 (0-	4.)			1230	0-4																	
5-4 (0-	3.)			1235	0-3'																	
5.5 (0.	4.)			1240	0-4																	
5-6 (2				1245	2.																	
5-7 (5)			1250	5'																	
5-8 (1)	V		1255	1,	V	V	V	V	V												
Total 200.7 / 6010	200.8 /	6020:	8	RCRA 13PP	M Texa	is 11	Al Sb	As Ba	a Be	B Cd	Ca Cı	Co C	u Fe F	Pb Mg	Mn M	o Ni	K Se	Ag Si	O ₂ Na	Sr Tl !	in U V Z	Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471																						
	lotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions if service, Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control																					

of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time 1240

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 8/9/2024 2:56:08 PM







Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-46542-1

Login Number: 46542 **List Source: Eurofins Midland**

List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Released to Imaging: 8/12/2024 9:24:45 AM



Appendix E: Photographic Documentation

APPENDIX E PHOTOGRAPHIC DOCUMENTATION WEST EUMONT UNIT #525



View to N of release point (2/22/24).



View to E of release point and excavation (7/25/24).



View to W of release point and excavation (7/25/24).



View to N of release point and excavation (7/25/24).

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 372361

QUESTIONS

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	372361
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2405856306			
Incident Name	NAPP2405856306 WEST EUMONT UNIT #525 @ 30-025-45482			
Incident Type	Produced Water Release			
Incident Status	Remediation Plan Received			
Incident Well	[30-025-45482] WEST EUMONT UNIT #525			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	WEST EUMONT UNIT #525			
Date Release Discovered	02/22/2024			
Surface Owner	Federal			

Incident Details			
Please answer all the questions in this group.			
Incident Type	Produced Water Release		
Did this release result in a fire or is the result of a fire	No		
Did this release result in any injuries	No		
Has this release reached or does it have a reasonable probability of reaching a watercourse	No		
Has this release endangered or does it have a reasonable probability of endangering public health	No		
Has this release substantially damaged or will it substantially damage property or the environment	No		
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No		

Nature and Volume of Release					
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.					
Crude Oil Released (bbls) Details	Not answered.				
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Injection Produced Water Released: 22 BBL Recovered: 17 BBL Lost: 5 BBL.				
Is the concentration of chloride in the produced water >10,000 mg/l	Yes				
Condensate Released (bbls) Details	Not answered.				
Natural Gas Vented (Mcf) Details	Not answered.				
Natural Gas Flared (Mcf) Details	Not answered.				
Other Released Details	Not answered.				
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 372361

QUESTI	ONS (continued)
Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416 Action Number: 372361 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Cindy Crain

Date: 08/09/2024

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 372361

QUESTIONS (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	372361
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

ded to the appropriate district office no later than 90 days after the release discovery date.
Yes
nination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Yes
No
in milligrams per kilograms.)
10900
89.8
89.8
0
0
mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
09/23/2024
10/28/2024
11/25/2024
420
65
420
65
on at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
,

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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QUESTIONS, Page 4

Action 372361

QUESTIONS (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	372361
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	MONUMENT SITE #15 (TNM-94-58) [fAB0000000056]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement Ref

Name: Cindy Crain Email: cindy.crain@gmail.com Date: 08/09/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 372361

QUESTIONS (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	372361
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 372361

QUESTIONS (continued)

Operator:	OGRID:
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11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	372361
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	366267
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1000

Rei	mediation Closure Request	
Onl	Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
F	Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 372361

CONDITIONS

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
	Action Number:
HOUSTON, TX 77079173	372361
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Create By	Condition	Condition Date
nvele	The remediation plan is approved as written. FAE has 90-days (November 12, 2024) to submit to OCD its appropriate or final remediation closure report.	8/12/2024